

VIRTUAL MOBILITY "SLOW DOWN EDUCATION IN THE NATURE" 26.-28.04.2021

PALADE PÕHIKOO, PALADE CENTER OF NATURE EDUCATION



WORKSHEET

LITTLE SMARTY SCIENCE BOX: GEL BEADS EXPERIMENT AT HOME

1. PLACE THE EQUIPMENT AND MATERIALS ON THE TABLE
 2. TAKE A HIGH DRINK GLASS, PUT ALL THE 240 ML OIL INTO AND PLACE THE OIL-FILLED GLASS IN THE FRIDGE FOR 40 MINUTES.
 3. AT THE SAME TIME CONTINUE THE PREPARATIONS, OPEN THE SMALL JUICE DRINK AND PUT THE JUICE IN A POT.
 4. SHAKE 1/2 TSP AGAR AGAR POWDER TO A POT AND MIX WITH CARE.
 5. NEXT ADD 1/2 TSP FOOD COLORING POWDER OR SOME DROPS LIQUID FOOD COLORING FOOD COLOR AND RE-MIX.
 6. PUT THE POT ON THE STOVE AND HEAT UNTIL THE FIRST BUBBLES ARE COMING (TO BOILING- ATTENTION! DO NOT BOIL!!!).
 7. CAREFULLY TAKE THE POT FROM THE STOVE AND PUT THE MIXTURE IN A HEAT - RESISTANT BOWL. ALLOW IT TO COOL UP UNTIL THE JUICE MIX APPEARS TO BE A LITTLE HOT BY TOUCHING (50 DEGREES °C)
 8. REMOVE A GLASS OF OIL FROM THE FRIDGE, IF THE OIL IS CLOUDY, LET IT WARM UP A LITTLE. IF THE OIL IS CLEAR, CONTINUE THE TEST!
 9. GET THE PIPETTE (OR THE DRINKING STRAW) AND FILL THE PIPETTE WITH JUICE MIXTURE
 10. HOLD A PIPETTE AT ABOVE 3 CM FROM THE OIL GLASS AND DROP THE MIXTURE OF APPLE JUICE DROP BY DROP INTO THE COLD OIL- OBSERVE WHAT HAPPENS.
 11. NICE SMALL BEADS SHOULD BE FORMED FROM THE JUICE INTO THE OIL THAT SLOWLY SINK TO THE BOTTOM OF GLASS. CONTINUE DROPIG UNTIL YOU ARE READY WITH ABOUT 20 PEARLS.
 12. THEN SIEVE PEARLS FROM OIL USING A SPOON OR SIEVE.
- IF YOU WISH, REPEAT THE TEST BUT KEEP IN MIND THAT THE TEMPERATURE OF OIL AND THE TEMPERATURE OF THE JUICE MIXTURE MUST STAY UNDER THE SAME CONDITIONS.
- NB! DO NOT REHEAT THE JUICE MIXTURE- THE TEST MAY NOT SUCCESS.

